

GURLEY PIT ARKANSAS

EPA ID# ARD035662469

Site ID: 0600077



EPA REGION 6

CONGRESSIONAL

DISTRICT 01

Crittenden County

Updated: May 18, 2004

Site Description

- Location:**
- Northeast Arkansas.
 - One mile north of Edmondson, Crittendon County, Arkansas.
 - Northwest corner of intersection of County Roads 14 and 175.

- Population:**
- Edmondson, 286

- Setting:**
- Nearest residence is adjacent to site.
 - Nearest drinking water well is 2.2 miles southeast.
 - Rural Area (5 residences within 0.5 mile radius of the site).
 - Primary land use in the vicinity of the site is agricultural.

- Hydrology:**
- Nine feet to ground water.
 - Site is located in the 100-year floodplain of Fifteen Mile Bayou.
 - Site is underlaid by 24 to 42 feet of low permeability clays.

Wastes and Volumes

- The principal pollutants at the Gurley Pit Superfund site include PCB (sludge and oil), barium, lead and zinc (surface water, soil and sludge).
- The volume of pollutants include 20,000 yd³ of sludge. The pits were de-watered in summer 1989.

Site Assessment and Ranking

NPL LISTING HISTORY

Site HRS Score: 40.13

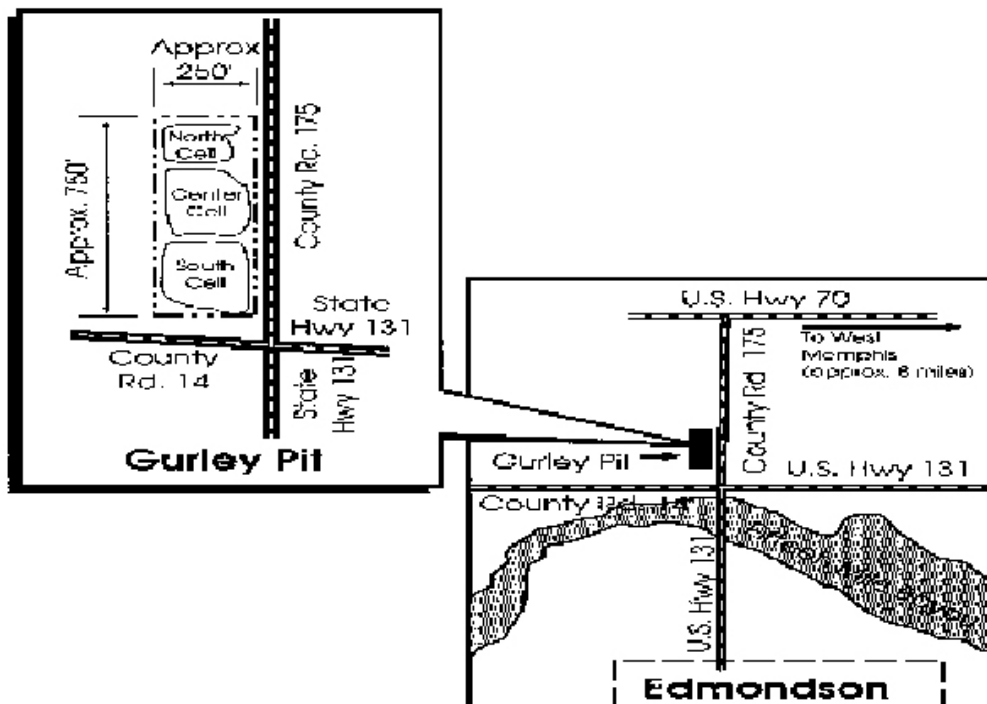
Proposed Date: 12/30/82

Final Date: 9/08/82

NPL Update: No. Original

● The Arkansas Department of Pollution Control and Ecology (ADPC&E) noted a concern with the aquifer designation. The U.S. Department of Interior noted that the site discharged contaminants to Fifteen-Mile Bayou, and that a light oil slick posed a threat to migratory water fowl. Comments did not affect the score.

Site Map and Diagram



The Remediation Process

Site History:

- Gurley Refinery leased property from R. A. Caldwell in 1970.
- 1970 to 1975 - Gurley used pit on property to dispose of waste.
- 1976 - lease terminated, pit abandoned.
- July 1978 - area flooded, causing emergency cleanup of oil from pit by EPA.
- After a flood in 1979, EPA performed an emergency removal of oil from the pit and installed drains and pumps to remove accumulated storm water.
- In May 1984, the Potentially Responsible Party (PRP) installed a fence and repaired dikes.
- August 1989 - Emergency Removal performed by the PRPs to lower water level in the pits and reinforce berms.
- August 1990 - Trial on liability and past costs.

Health Considerations:

- Direct contact and public use of shallow aquifer as a source of drinking water.

Other Environmental Risks:

- Pit overflowed into a nearby stream. The pit posed a threat to surface water and water fowl.

Record of Decision

Signed: October 6, 1986 (Source Control)
September 26, 1988 (Ground Water)

Source Control:

- Stabilize sludges and place within an onsite Resource Conservation and Recovery Act (RCRA) vault.
- Treat and discharge water.

Ground Water:

- A Feasibility Study was not conducted since the Remedial Investigation indicated that the ground water contained no site-related contaminants and that the potential for future contamination would be prevented by the implementation of the source control remedy (i.e. - no need for further action).

Other Remedies Considered

1. No Action
2. Stabilize and cap
3. Stabilize in place
4. Incineration offsite

Reason Not Chosen

Already releases from site
Complete stabilization not possible due to
high organic content of waste
(same as above)
Transportation and safety
problem/cost

Community Involvement

- Community Involvement Plan: 04/84, revised 01/88.
- Open houses and workshops: 12/92; 1/93; 3/93; 12/93; 5/94; 8/94.
- Original Proposed Plan Fact Sheet and Public Meeting: Source 05/86; Ground water 08/88.
- Original ROD Fact Sheet: Source 01/87; Ground water 10/88.
- Milestone Fact Sheets: Update released 1/90; Fact Sheet 01/93; Fact Sheet 10/94
- Citizens on site mailing list: 39
- Constituency Interest: Low organized interest; individual interest appears high.
 - Major concern was the odor, and the danger of children falling into the pits.
 - Locals are concerned about the safety of eating fish.
- Site Repository: Edmondson City Hall, Edmondson, Arkansas

Technical Assistance Grant

- Availability Notice: 01/89
- Letters of Intent Received: None
- Grant Award: N/A

Contacts

- **Remedial Project Manager (EPA):** Ernest Franke, PE, PLS 214/665-8521, Mail Sta. 6SF-AP
- **State Project Manager (ADEQ):** Kin Siew, PE 501/ 682-0855
- **Community Involvement (EPA):** Ernest Franke, PE, PLS 214/665-8521, Mail Sta. 6SF-AP
- **Attorney (EPA):** Anne Foster, 214/665-2169, Mail Sta. 6RC-S
- **State Coordinator (EPA):** Karen Bond, 214/665-6682, Mail Sta. 6SF-AP
- **Engineer /Oversight Services:** U.S. Army Corps of Engineers (USACE)
- **Prime Contractor:** Mobley Contractors
- **Regional Public Liaison (EPA):** Arnold Ondarza , 303-312-6777

Benefits

- A fence was constructed and the site was secured in December 1992.
- Baseline air monitoring was also initiated during the same time frame.
- Construction of the RCRA vault was completed in the Fall of 1994.
- Riser pipe slot modifications and water removal are complete.
- Five-Year review was completed and signed 1/09/97 by EPA.
- The Final Site Close Out Report was signed 7/31/98 by EPA.
- State of Arkansas submitted on 11/09/98 the Operation & Maintenance (O&M) and Sampling & Analysis (SA) Plans.
- The State O&M and SA Plans were approved by EPA on January 8, 1999
- Arkansas Department of Environmental Quality (ADEQ) concurred on site NPL deletion.
- Second Five-Year Review signed by EPA September 30, 2002.
- The site is under State O&M by Arkansas Department of Environmental Quality.
- The Notice of Intent to Delete (NOITD) the Gurley Pit site from NPL has been prepared by EPA and signed 6/23/03 . The deletion package was prepared and is being forwarded for NOITD public notice .
- Notice of Deletion of the Gurley Pit site from NPL signed September 30, 2003.